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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/580,813 | 05/26/2000 | Thomas M. Keeley | 460870.90018 | 9113 |

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EXAMINER

NGUYEN, MAIKHANH

ART UNIT PAPER NUMBER

2176

DATE MAILED: 11/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/580,813

Applicant(s)

KEELEY, THOMAS M.

Examiner

Maikhanh Nguyen

Art Unit

2176

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 September 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 4-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 4-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is responsive to communications: Amendment filed 09/09/2005 to the original application filed 05/26/2000.
2. Claims 1 and 4-14 are currently pending in this application. Claims 1 and 10 have been amended. Claims 2-3 and 15-16 have been canceled. Claims 1 and 10 are independent claims.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
4. Claims 1 and 4-14 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
5. Specification does not explicitly describe nor is sufficiently clear for one of ordinary skill in art to recognize the limitation “*the hierarchically displayed representation of the text identified ideas may be switched by a user*” as recited in claims 1 and 10.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 1 and 4-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- a. **As claims 1 and 10**, the phrase “*may be*” renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d). The resulting claim does not clearly set forth the metes and bounds of the patent protection desired. The use of similar exemplary language “for example” or “such as” was found to be indefinite in the following cases: Ex parte Hall, 83 USPQ 38 (Bd. App. 1949); Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949); Ex parte Steigerwald, 131 USPQ 74 (Bd. APP. 1961).
- b. **Dependent claims 4-9 and 11-14** are rejected for fully incorporating the deficiencies of their base claims.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1 and 4-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Hugh** (U.S. 6,256,032 – filed 01/2000) in view of **Marpe et al.** (U.S. 6,671,693 – filed 11/1999) and further in view of **Applicant Admitted Prior Art (AAPA)**.

As to claim 1

- a. Hugh teaches a program for the organization of ideas using an electronic computer (*e.g., organizing and processing pieces of interrelated information 'or thoughts' using a digital computer; Abstract*), the electronic computer having a user input device and a graphics display (*e.g., graphical user interface to facilitate user interaction; Abstract*), the program comprising instructions executed on the electronic computer to:
- (i) accept text identified ideas from a user via the user-input device (*e.g., the "key words" of a thought ...inputted by the user; col.6, lines 15-24*);
 - (ii) hierarchically display representations of the text identified ideas on the graphic display (*e.g., a graphical presentation of a portion of the matrix is displayed ... according to the thoughts ...hierarchical-based approaches; col.2, line 45-col.3, line 16*) as organized into levels defined by common hierarchical dependency (*e.g., traditional hierarchical structures and "desktop" metaphors compel users to organize their thought processes ...hierarchical metaphors for information management; col.2, lines 1-13*);

- (iii) accept from the user numeric priorities for the text identified ideas of at least one level (*e.g., a priority number set by the user indicates the relative importance of a particular thought; col.7, lines 11-17*); and
 - (iv) hierarchically arrange the text identified ideas of the at least one level on the graphic display (*e.g., the placement of the thoughts reflects second-level relations ... graphical presentation; col.7, line 64-col.8, line 11 & arrange portion of their information in a traditional hierarchical manner; col.28, lines 35-52*) according to the numeric priorities (*e.g., priority 230; col.7, lines 11-17 & thought lists ...priority levels; col.25, lines 26-37*).
- b. Hugh, however, does not explicitly teach “*accept at least one hierarchy instructions from the user via the user-input device, the hierarchy instructions relating the accepted text identified ideas in dependencies.*”
- c. Marpe teaches accept at least one-idea hierarchy instructions from the user via the user-input device, the hierarchy instructions relating the accepted text identified ideas in dependencies (*e.g., Exploring or pre-writing is the process of brainstorming and taking unstructured notes ...relation among ideas, groups related ideas and constructs small hierarchical structures ...Organizing is the process of putting those notes or ideas in order, in the form of an outline or a hierarchy; col.12, lines 11-61& receiving data from multiple users in a plurality of categories, wherein the data is organized in a hierarchy of categories; col.54, lines 56-64*).

- d. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Hugh with Marpe because it would have provided the capability for translating the abstraction of content and the relations of a hierarchical structure into a sequence of words, sentences, paragraphs, sections, chapters, and illustrations.
- e. The combination of Hugh and Marpe does not specifically teach “*wherein the hierarchically displayed representation of the text identified ideas may be switched by a user between: (i) a text outline of the text displayed according to the hierarchical dependencies of ideas associated with the text, the text outline including paragraphs arranged beneath other paragraphs on which they depend; and (ii) node symbols representing the text identified ideas arranged in a tree according to their hierarchical dependencies, the tree structure including branches visually connecting node symbols to other node symbols on which they depend.*”
- f. AAPA teaches wherein the hierarchically displayed representation of the text identified ideas may be switched by a user between: (i) a text outline of the text displayed according to the hierarchical dependencies of ideas associated with the text, the text outline including paragraphs arranged beneath other paragraphs on which they depend; and (ii) node symbols representing the text identified ideas arranged in a tree according to their hierarchical dependencies, the tree structure including branches visually connecting node symbols to other node symbols on which they depend (*page 1, line 15-28*).

- g. It would have obvious to a person of ordinary skill in the art at the time the invention was made to combine AAPA's teachings with Hugh as modified by Marpe because it would have provided the capability for imposing an outline on text documents in which "subservient" ideas are placed in paragraphs indented and underneath paragraphs representing "dominant" ideas.

As to claim 4

Hugh teaches provide a list of representations of identified ideas of a level (*col.29, lines 8-24*) and wherein priorities are assigned by the user by changing the order of the representations of identified ideas within the list of representations of text identified ideas (*col.7, lines 10-17 and col.14, lines 9-23*)

As to claim 5

Hugh teaches allow changing of order of representations of identified ideas by selection of a given representation of an identified idea as displayed on the graphics display using the user input device and moving the representations of the identified idea within the list of representations of text identified ideas as displayed on the graphic display device using the user input device (*col.6, lines 45-65 & col.14, lines 9-23*).

As to claim 6

Hugh teaches when the representation of an identified idea is moved within the list of representations of text identified ideas to modify the numeric priority of at least one idea text identified idea so that the numeric priorities of all identified ideas in the list of representations of text identified ideas remain monotonically decreasing (*col.23, line 43-col.24, line 24*).

As to claim 7

Hugh teaches provide a list of representations of text identified ideas of a common hierarchical level and to display a slide control for each text identified idea in the list of representations of text identified ideas that may be manipulated by the user input device to enter the numeric priorities (*col.24, line 1-24*).

As to claim 8

Hugh teaches decrease the numeric priority of all specific identified ideas in the list of representations of text identified ideas to beneath a given identified idea to a value less than a value of the numeric priority of the given text identified idea (*col.7, lines 11- 17 & lines 40-51*).

As to claim 9

Hugh teaches increase the value of the numeric priority value of all specific text identified ideas in the list of representations of text identified ideas above a given text identification idea to a value at least equal to a value of the numeric priority of the specific text identified idea (*col.8, lines 55-col.9, line 11*).

As to claim 10

- a. The rejection of independent claim 1 above is incorporated herein in full.
Additionally, claim 10 further recites “after acceptance of a given text identified idea from the user in at least one predefined level, prompt the user as to additional text identified ideas for inclusion in a next level having ideas dependent on the idea of the given text identified idea.”

- b. Hugh teaches after acceptance of a given text identified idea from the user in at least one predefined level, prompt the user as to additional text identified ideas for inclusion in a next level having ideas dependent on the idea of the given text identified idea (*col.8, line 55- col.9, line 49*).

As to claim 11

Hugh teaches the predefined categories are issue, position and argument and wherein the user is prompted with possible arguments when the given text identified idea is a position and the user is prompted with possible positions when the given text identified idea is an issue (*col.24, line 45-col.25, line 11*).

As to claim 12

Hugh teaches the user is prompted with a set of open-ended questions (*col.21, lines 36-54*).

As to claim 13

Hugh teaches the open-ended questions are augmented by text from the given text (*col.21, lines 36-54*).

As to claim 14

Hugh teaches allow the user to select from a set of predefined generic identified ideas and hierarchies and to provide an editor for editing the predefined generic identified ideas and hierarchies (*col.7, lines 28-51 & col.22, lines 13-38*).

Response to Arguments

9. Applicant's arguments filed 09/09/2005 have been fully considered but they are not persuasive.

The Examiner believes that the combination of Hugh, Marpe and AAPA meets all the limitations as claimed by Applicant. Particularly, AAPA is combined with Hugh and Marpe to teach the newly added limitations.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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| Jurovics et al. | U.S. Patent No. 5,675,820 | issued: Oct. 7, 1997 |
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| Kolster | U.S. Patent No. 5,920,877 | issued: Jul. 6, 1999 |
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| Greenfield et al. | U.S. Patent No. 6,544,294 | issued: Apr. 8, 2003 |
|-------------------|---------------------------|----------------------|

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the

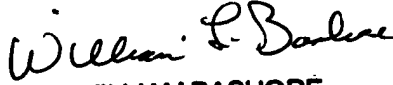
shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maikhanh Nguyen whose telephone number is (571) 272-4093. The examiner can normally be reached on Monday - Friday from 9:00am – 5:30 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Herndon can be reached at (571) 272-4136.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MN


WILLIAM BASHORE
PRIMARY EXAMINER
11/21/2005